ABSTRACT OF THE INVENTION-

DYNAMIC SOURCE AUTHENTICATION AND ENCRYPTION CRYPTOGRAPHIC SCHEME FOR A GROUP-BASED SECURE COMMUNICATION ENVIRONMENT

Embodiments of the present invention include a method for establishing secure group-based communication comprising: distributing a first set of keys to a plurality of hosts for encrypting communication and for source authentication of group-based communication between the plurality of hosts. The method further includes distributing a second set of keys to the plurality of hosts for dynamically modifying the first set of keys as also any other keys used (encryption keys or seed variables) when required (viz. for periodic re-keying or for adjusting to a change in group membership).

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